WEST Search History

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DATE: Friday, January 09, 2004

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		DB = USPT; T	HES=ASSIGNEE; PLUR=YES; OP=ADJ	•	
		L5	L4 and VEGF	165	
		L4	L3 and chimeric adj antibody	165	
		L3	L2	933	,
		DB=PGPB, US	SPT,EPAB,JPAB,DWP1; THES=ASSIGNEE; PLUR=	=YES; OP=ADJ	()()
		L2	L1 and angiogenesis	3801	
		L1	VEGF and antibody	5277	

END OF SEARCH HISTORY

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=> scFVs
          291 SCFVS
L1
=> L1 and VEGF
         8662 VEGF
           95 VEGFS
          8666 VEGF
                (VEGF OR VEGFS)
             3 L1 AND VEGF
L2
=> L1 and gene therapy
        827526 GENE
        311930 GENES
        875641 GENE
                (GENE OR GENES)
        212440 THERAPY
        14097 THERAPIES
        220053 THERAPY
                (THERAPY OR THERAPIES)
        32409 GENE THERAPY
               (GENE (W) THERAPY)
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20 L1 AND GENE THERAPY

=> DIS L3 1- IBIB IABS

L3

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                present
NEWS
     4 DEC 08
                INPADOC: Legal Status data reloaded
     5 SEP 29 DISSABS now available on STN
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     6 OCT 10 PCTFULL: Two new display fields added
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     7 OCT 21 BIOSIS file reloaded and enhanced
NEWS
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
                in REGISTRY
NEWS 13 DEC 09
                STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14 DEC 17
                DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
                available
NEWS 17
        DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
                databases
                                                  1000
                IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 18 DEC 22
NEWS 19 DEC 22 ABI-INFORM now available on STN
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NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT
             MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
             AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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ENTRY SESSION 0.21 0.21

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FILE COVERS 1907 - 9 Jan 2004 VOL 140 ISS 3 FILE LAST UPDATED: 8 Jan 2004 (20040108/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> VEGF

8655 VEGF

95 VEGFS

L1 8659 VEGF

(VEGF OR VEGFS)

=> chimeric (w) antibody

37684 CHIMERIC

24 CHIMERICS

37693 CHIMERIC

(CHIMERIC OR CHIMERICS)

256291 ANTIBODY

283989 ANTIBODIES

390476 ANTIBODY

(ANTIBODY OR ANTIBODIES)

L2 971 CHIMERIC (W) ANTIBODY

=> L1 and L2

L3 14 L1 AND L2

=> treatment and L1

1862991 TREATMENT

171435 TREATMENTS

1955694 TREATMENT

(TREATMENT OR TREATMENTS)

L4 2003 TREATMENT AND L1

=> L4 and L2

L5 3 L4 AND L2

=> DIS L5 1- IBIB IABS

YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 7.62 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:335256 CAPLUS

DOCUMENT NUMBER:

138:352765

TITLE:

Antibody or immunoadhesin having Fc region for

diagnosis and treatment of cancer,

autoimmune disease, inflammation, or infection Presta, Leonard G.

INVENTOR(S):

PATENT ASSIGNEE(S):

Genentech, Inc., USA PCT Int. Appl., 139 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.		KI	ND	DATE			A	PPLI	CATI	ON NO	ο.	DATE			
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WC	2003	0358	35	A.	3	2003	1016										
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
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PRIORIT	Y APP	LN.	INFO	. :				1	US 2	001-	3376	42P	P	2001	1025		
								1	US 2	002-	3476	94P	P	2002	0109		

ABSTRACT:

The present invention concerns compns. comprising a glycoprotein having an Fc region, wherein about 80-100% of the glycoprotein in the compn. comprises a mature core carbohydrate structure which lacks fucose, attached to the Fc region of the glycoprotein. The preferred glycoprotein is an antibody or immunoadhesin. The antibody or immunoadhesin is a chimeric, humanized or human antibody or immunoadhesin. The antibody or immunoadhesin is specific to B cell surface marker, ErbB receptor, tumor antigen or angiogenic factor, such as CD20, HER2, VEGF, CD40 or prostate stem cell antigen. The antibody or immunoadhesin is useful for treating cancer, autoimmune disease, inflammatory disease, infection, or condition where removal of cells or tissue is desired.

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:338563 CAPLUS

DOCUMENT NUMBER:

134:348629

TITLE:

Modulation of eNOS activity using VEGF, a variant, or VEGF receptor agonists and

therapeutic uses thereof

INVENTOR(S):

Shen, Ben-Quan; Zioncheck, Thomas

PATENT ASSIGNEE(S):

Genentech, Inc., USA

SOURCE:

PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032695	A2	20010510	WO 2000-US30294	20001102
WO 2001032695	A3	20020214		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1225910 A2 20020731 EP 2000-980281 20001102

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2003513105 T2 20030408 JP 2001-535394 20001102

PRIORITY APPLN. INFO.: US 1999-163132P P 19991102

WO 2000-US30294 W 20001102
```

ABSTRACT:

The present invention provides uses of VEGF, a variant, or

VEGF receptor agonists for the up-regulation of eNOS expression and
activity. VEGF, its variants, and VEGF receptor agonists
are useful in the treatment of or prevention from hypertension,
diabetes, angina, thrombosis, atherosclerosis, heart failure, and other
conditions or disorders wherein nitric oxide is an important regulator.
Methods of prepg. the variants are also disclosed in the patent.

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:911535 CAPLUS

DOCUMENT NUMBER:

134:85128

TITLE:

Diagnostics and remedies for diseases with

participation of macrocytes/macrophages

INVENTOR(S):

Shitara, Kenya; Shibuya, Masabumi Kyowa Hakko Kogyo Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 163 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
                                         -----
                                                          -----
    WO 2000079275
                     A1
                           20001228
                                         WO 2000-JP3957
                                                          20000616
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
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            ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV,
            MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE,
            SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
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                      A1 20020424
                                       EP 2000-937283 20000616
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            IE, SI, LT, LV, FI, RO, MK, CY, AL
PRIORITY APPLN. INFO.:
                                       JP 1999-171709
                                                       A 19990617
                                       WO 2000-JP3957
                                                       W 20000616
```

ABSTRACT:

Diagnostics and remedies for inflammatory diseases, delayed hypersensitivity, malignant tumor and arteriosclerosis which contain, as the active ingredient, a substance binding to human VEGF receptor Flt-1 or a substance inhibiting signal transduction mediated by human VEGF receptor Flt-1. The human VEGF receptor Flt-1-binding substance is a monoclonal or polyclonal antibody, chimeric antibody, or antibody fragment.

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L3 1- IBIB IABS

YOU HAVE REQUESTED DATA FROM 14 ANSWERS - CONTINUE? Y/(N):Y THE ESTIMATED COST FOR THIS REQUEST IS 35.57 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) / N:Y

ANSWER 1 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:972195 CAPLUS

DOCUMENT NUMBER:

140:26922

TITLE:

Chimeric/humanized antibodies comprising viral coat protein, peptide tag and linkers for screening target antigen-binding polypeptides as therapeutics and

reagents

INVENTOR(S):

Fuh, Germaine G.; Sidhu, Sachdev S.

PATENT ASSIGNEE(S): SOURCE:

Genentech, Inc., USA PCT Int. Appl., 205 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	ENT I	NO.		KI	ND :	DATE			A.	PPLI	CATI	N NC	Э.	DATE			
										_								
	WO	2003	1021	57	A.	2	2003	1211		W	20	03-U	S175	45	2003	0603		
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															KZ,			
			LS,	LT,	LU,	ĽV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
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PRIO	RITY	APP:	LN.	INFO	. :				1	US 20	002-3	3853	38P	P	2002	0603		
									1	US 20	003-4	4636	56P	P	2003	0416		

ABSTRACT:

The invention provides comprising variant amino acids in CDRs of antibody variable domains. These polypeptides provide a source of great sequence diversity that can be used as a source for identifying novel antigen binding polypeptides. The target antigen is VEGF, IGF-1 or Her-2. The invention also provides these polypeptides as fusion polypeptides to heterologous polypeptides such as at least a portion of phage or viral coat proteins, tags, and linkers. The viral coat protein consists of protein pIII, major coat protein pVIII, Soc, Hoc, gpD, pv1 or variant; and the peptide tag is gD, c-myc, poly-His, fluorescence protein, or .beta. galactosidase. Libraries comprising a plurality of these polypeptides are also provided. In addn., methods of and compns. for generating and using these polypeptides and libraries are provided.

L3 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:863449 CAPLUS

DOCUMENT NUMBER:

TITLE:

Antibodies specific to KDR/Flk-1 phosphorylated at tyrosine 1214, and its uses in drug screening and

therapy

INVENTOR(S):

Shibuya, Masashi; Furuya, Akiko; Shitara, Kenya

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. -----_____ JP 2003310276 A2 20031105 JP 2002-129072 20020430 PRIORITY APPLN. INFO.: JP 2002-129072 20020430

ABSTRACT:

Antibodies specific to vascular endothelial growth factor receptor KDR/Flk-1 phosphorylated at tyrosine at position 1214 (Y1214), and use in various therapeutic and drug screening applications, are disclosed. Various angiogenesis-related methods using this substance are provided: a method for inhibiting the signal transduction of KDR/Flk-1; a method for inhibiting cell proliferation; a method for inhibiting angiogenesis; a method for screening a cell proliferation inhibitor; a method for screening an angiogenesis inhibitor; a method for screening a substance inhibiting the signal transduction of KDR/Flk-1; a method for judging whether or not a test substance inhibits the signal transduction of KDR/Flk-1; a method for screening a substance inhibiting the phosphorylation at tyrosine at the 1214-position of KDR/Flk-1.

ANSWER 3 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN L3

ACCESSION NUMBER: DOCUMENT NUMBER:

2003:656789 CAPLUS

TITLE:

139:196277 Antibody variants with faster antigen association

rates for diagnostics and therapeutic uses

INVENTOR(S):

Lowman, Henry B.; Marvin, Jonathan S.

PATENT ASSIGNEE(S):

Genentech, Inc., USA PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT :	NO.		KI	ND :	DATE			A.	PPLI	CATI	N NC	ο.	DATE			
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								1	JS 20	002-4	4096	85P	P	2002	0910		

ABSTRACT:

Antibody variants with higher affinity to antigen are disclosed. The antibody variants have one or more amino acid alteration(s) in or adjacent to at least one hypervariable region thereof which increase charge complementarity between the antibody variant and an antigen to which it binds. Variants of anti-***VEGF*** antibody Y0101, anti-tissue factor antibody D3H44 and anti-HER2 antibody 4D5 were prepd. and tested.

L3 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:335256 CAPLUS

DOCUMENT NUMBER:

138:352765

TITLE:

Antibody or immunoadhesin having Fc region for

diagnosis and treatment of cancer, autoimmune disease,

inflammation, or infection

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

Presta, Leonard G. Genentech, Inc., USA PCT Int. Appl., 139 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.		KII	ND.	DATE			A.	PPLI	CATI	ON NO	ο.	DATE			
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WO	2003	03583	35 -	A:	3	2003	1016										
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JΡ,	KΕ,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
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								1	US 2	002-3	3476	94 P	P	20020	109		

ABSTRACT:

The present invention concerns compns. comprising a glycoprotein having an Fc region, wherein about 80-100% of the glycoprotein in the compn. comprises a mature core carbohydrate structure which lacks fucose, attached to the Fc region of the glycoprotein. The preferred glycoprotein is an antibody or immunoadhesin. The antibody or immunoadhesin is a chimeric, humanized or human antibody or immunoadhesin. The antibody or immunoadhesin is specific to B cell surface marker, ErbB receptor, tumor antigen or angiogenic factor, such as CD20, HER2, VEGF, CD40 or prostate stem cell antigen. The antibody or immunoadhesin is useful for treating cancer, autoimmune disease, inflammatory disease, infection, or condition where removal of cells or tissue is desired.

L3 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:273850 CAPLUS

DOCUMENT NUMBER:

139:336677

TITLE:

A Phase I Study of Anti-Kinase Insert

Domain-containing Receptor Antibody, IMC-1C11, in Patients with Liver Metastases from Colorectal

Carcinoma

AUTHOR (S):

Posey, James A.; Ng, Thian C.; Yang, Baolian; Khazaeli, M. B.; Carpenter, Mark D.; Fox, Floyd; Needle, Mike; Waksal, Harlan; LoBuglio, Albert F.

CORPORATE SOURCE:

Comprehensive Cancer Center, Division of

Hematology/Oncology, Departments of Medicine and Radiation Oncology, University of Alabama at Birmingham, Birmingham, AL, 35294-3300, USA

SOURCE:

Clinical Cancer Research (2003), 9(4), 1323-1332

CODEN: CCREF4; ISSN: 1078-0432

PUBLISHER:

American Association for Cancer Research

DOCUMENT TYPE:

Journal English

LANGUAGE: ABSTRACT:

Angiogenesis plays an important role in colorectal cancer progression. Stimulation of vascular endothelial growth factor receptor (VEGFR), a transmembrane glycoprotein, results in endothelial mitogenesis. Within this family of receptors, VEGFR2/kinase-insert-domain-contg. receptor (KDR) appear to be principally up-regulated during tumorigenesis. A chimeric anti-KDR antibody, IMC-1C11, blocks VEGFR-KDR interaction and inhibits VEGFR-induced endothelial cell proliferation. This trial seeks to assess the safety, tolerability and feasibility of targeting an important pathway in tumorigenesis. In a dose-escalation, single-agent study of IMC-1C11, we enrolled 14 patients with colorectal carcinoma and hepatic metastases. Safety-, pharmacokinetic-, immunogenicity-, and magnetic resonance imaging-assessed alteration of vascular effects of IMC-1C11 were evaluated in this trial. IMC-1C11 was infused weekly at 0.2 mg/kg (n = 3), 0.6 mg/kg (n = 3) 4), 2.0 mg/kg (n = 3), and 4.0 mg/kg (n = 4) for 4 wk, which constituted a cycle. No grade-3 or -4 IMC-1C11-related toxicities were obsd. Minor grade-1 bleeding events were obsd. in four patients [0.2 mg/kg (n = 1)] and 0.6 mg/kg (n = 1)= 3)]. Each resolved quickly and required no intervention. The starting dose of IMC-1C11 was selected to achieve a Cmax of .apprx.5 .mu.g/mL. This concn. prevented KDR phosphorylation in vitro. Pharmacokinetic anal. demonstrated that the plasma t1/2 and Cmax were dose dependent with a plasma t1/2 of 67 .+-. 3 h at the 4-mg/kg dose level. Human anti-chimeric ***antibodies*** were detected in 7 of 14 patients. The antibodies to IMC-1C11 inhibited the circulation of the agent in two patients. One patient had prolonged stable disease for seven cycles (28 wk). The mean changes in tumor-influx vol.-transfer const. kin (min-1) and enhancement factor after 4 wk of therapy were significantly decreased compared with pretreatment values in 11 patients. IMC-1C11 was both safe and well tolerated. Drug levels of IMC-1C11 were reliably predicted. Further clin. investigation of anti-VEGFR/KDR agents is warranted.

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:814159 CAPLUS

DOCUMENT NUMBER:

137:336728

TITLE:

Chimeric antibodies and fragments

or variants specific to vascular endothelial growth factor 2 for diagnosing, prognosing and treating

infection, inflammation, cancer and autoimmune disease Rosen, Craig A.; Albert, Vivian R.; Ruben, Steven M.;

Wager, Ruth E.

PATENT ASSIGNEE(S):

Human Genome Sciences, Inc., USA

SOURCE:

PCT Int. Appl., 407 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

INVENTOR(S):

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	ENT	NO.		KII	ND .	DATE			A.	PPLI	CATI	ON NO	ာ.	DATE			
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MO	2002	0837	04	A:	1	2002	1024		M	20	02-U	S114	74	2002	0412		
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                                             US 2002-120414 20020412
     US 2003175274
                         A1
                               20030918
                                                WO 2002-US26246 20020819
     WO 2003097660
                         A1
                               20031127
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              PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
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              PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
              NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                             US 2001-283385P P 20010413
                                             US 2002-350366P P 20020124
                                             WO 2002-US11474 A 20020412
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ABSTRACT:

Disclosed are anti-VEGF-2 agonistic or antagonistic human or humanized antibodies, antibody fragments, or variants thereof. Also provided are processes for producing such antibodies. The present invention relates to methods and compns. for preventing, treating or ameliorating a disease or disorder comprising administering to an animal, preferably a human, an effective amt. of one or more VEGF-2 antibodies or fragments or variants thereof. The disease is selected from inflammatory diseases, proliferative diseases, tumors, metastasis, breast cancer, brain cancer, prostate cancer, colon cancer, lymphangioma, infections, Kaposi's sarcoma, autoimmune diseases, rheumatoid arthritis, psoriasis, diabetic retinopathy, and other diseases assocd. with aberrant or lack of VEGF-2 expression.

REFERENCE COUNT: THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS 1 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 7 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:709689 CAPLUS

DOCUMENT NUMBER:

137:211928

TITLE:

Construction of eukaryotic expression system and its

uses for antibody cloning

INVENTOR(S):

Yang, Zhihua; Ran, Yuliang

PATENT ASSIGNEE(S):

Inst. of Tumors, Tumor Hospital, Chinese Academy of

Medical Sciences, Peop. Rep. China

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 31 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1328157	Α	20011226	CN 2000-108065	20000609
PRIORITY APPLN. INFO.	:		CN 2000-108065	20000609
ABSTRACT.				

The invention relates to construction of plasmid vector for expression of antibody in eukaryote. The vector contains selective marker gene (such as aminoglycoside phosphate transferase, thymidine kinase, hygromycin B phosphate transferase, xanthine-quanine phosphoribosyltransferase, or asparagine synthase) and extensible selective marker gene (such as dihydrofolic acid reductase (dhfr) or glutamine synthase). The vector also contains weak promotor (such as 72 bp fragment-deleted SV40) for driving the expression of the said marker genes. The vector also contains strong promotor (such as PhCMV-IE, PSV40-E, or PRSV-LTR) for driving the expression of antibody gene.

The vector also contains enhancer sequence (such as 5'-non-translational region SP163 of mouse vascular endothelial growth factor). The vector further contains strong translation terminator (such as BGH polyA or SV40 polyA). eukaryotic expression system is constructed by successively prepg. general cloning vectors (such as pYR-GCVH and pYR-GCVL) of variable region of antibody, intermediate expression vectors (such as pYR-SV2-rdhfr and pYR-SV2-rneo) of antibody, and general eukaryotic expression vector (such as pYR-GSEVH, pYR-GSEVL, pYR-GCEVH, and pYR-GCEVL). The eukaryotic expression system is used to prepn. and prodn. of antibodies (such as chimeric antibody, modified antibody, humanized antibody, small mol. antibody, intracellular antibody, double-specific antibody, and other derivs.). The chimeric ***antibody*** of human **VEGF** and small mol. antibody of human carcino-embryonic antigen (CEA) were prepd. by using the eukaryotic expression system in CHO-dhfr- cell.

ANSWER 8 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:695813 CAPLUS

DOCUMENT NUMBER: 137:231369

Anti-VEGFR antibodies in combination with anti-EGFR TITLE:

antibodies, chemotherapeutic agent or radiotherapeutic

agent for inhibiting tumor growth

PATENT ASSIGNEE(S): Imclone Systems Incorporated, USA; Rockwell, Patricia;

Goldstein, Neil I.

PCT Int. Appl., 151 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATEN'	T N	10.		KII	ND	DATE			A	PPLI	CATI	ои ис	٥.	DATE				
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WO 20	020	7000	8 C	A:	1	2002	0912		W	O 20	02-U	56762	2	20020	0304			
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US 20	031	L0391	73	A.	l	2003	0605		U	S 20	01-7	98689	9	2001	0302			
PRIORITY A	PPI	IN.	INFO	. :				1	US 2	001-	7986	89	Α	2001	0302			
								1	US 1	994-3	1960	41	B2	19940	0210			
								1	US 1	994-3	3265	52	A1	1994	1020			
								1	US 1	995-4	1765	33	B2	1995	0607			
								1	US 1	996-'	7068	04	A2	19960	0903			
								1	US 1	997-	9671	13	A1	1997	1110			
								1	US 1	999-4	4011	63	A2	1999	0922			

ABSTRACT:

The present invention provides a method of reducing or inhibiting tumor growth in a mammal comprising treating the mammal with an effective amt. of a combination of a VEGF receptor antagonist and radiation, chemotherapy, and/or an addnl. receptor antagonist (e.g. epidermal growth factor receptor antagonist). The VEGF receptor antagonists are anti-VEGFR antibodies, fragments, humanized or chimeric ***antibodies***

REFERENCE COUNT: THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS 7 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ACCESSION NUMBER: 2002:409126 CAPLUS

DOCUMENT NUMBER: 137:5011

TITLE: Antibodies specific to human KDR VEGF

receptor for inhibiting angiogenesis and tumor growth

INVENTOR(S): Zhu, Zhenping; Witte, Larry

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 34 pp., Cont. of U.S. Ser. No.

493,339.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2002064528 A1 20020530 US 2001-976787 20011012

PRIORITY APPLN. INFO.: US 2000-493539 A1 20000128

ABSTRACT:

The invention provides an Ig. mol. which binds KDR with an affinity comparable to human VEGF, and that neutralizes activation of KDR. Ig. mols. include monovalent single chain antibodies, multivalent single chain antibodies, diabodies, triabodies, antibodies, humanized antibodies and ***chimeric*** antibodies. The invention further provides nucleic acid mols. that encode these Ig. mols. The invention also provides a method of making the Ig. mols. mentioned above. The invention further provides a method of neutralizing the activation of KDR, a method of inhibiting angiogenesis in a mammal and a method of inhibiting tumor growth in a mammal with such Ig. mols.

L3 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:338563 CAPLUS

DOCUMENT NUMBER: 134:348629

TITLE: Modulation of eNOS activity using **VEGF**, a

variant, or **VEGF** receptor agonists and

therapeutic uses thereof

INVENTOR(S): Shen, Ben-Quan; Zioncheck, Thomas

PATENT ASSIGNEE(S): Genentech, Inc., USA SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

WO 2001032695 A2 20010510 WO 2000-US30294 20001102	
WO 2001032695 A3 20020214	
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,	, CN,
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EP 1225910 A2 20020731 EP 2000-980281 20001102	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,	, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR	•
JP 2003513105 T2 20030408 JP 2001-535394 20001102	
PRIORITY APPLN. INFO.: US 1999-163132P P 19991102	
WO 2000-US30294 W 20001102	

ABSTRACT:

The present invention provides uses of VEGF, a variant, or ***VEGF*** receptor agonists for the up-regulation of eNOS expression and activity. VEGF, its variants, and VEGF receptor agonists are useful in the treatment of or prevention from hypertension, diabetes, angina, thrombosis, atherosclerosis, heart failure, and other conditions or disorders wherein nitric oxide is an important regulator. Methods of prepg. the variants are also disclosed in the patent.

L3 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:911535 CAPLUS

DOCUMENT NUMBER: 134:85128

TITLE: Diagnostics and remedies for diseases with

participation of macrocytes/macrophages

INVENTOR(S): Shitara, Kenya; Shibuya, Masabumi

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: PCT Int. Appl., 163 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	CENT	NO.		KI	ND :	DATE			A.	PPLI	CATI	N NC	Ο.	DATE			
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,	WO	2000	0792'	75	A	1 :	2000:	1228		W	20	00-J	P395	7 .	2000	0616		
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PRIO	RITY	APP	LN.	INFO	. :					JP 1:	999-	1717	09	Α	1999	0617		
									1	WO 2	000-	JP39	57	W	2000	0616		

ABSTRACT:

Diagnostics and remedies for inflammatory diseases, delayed hypersensitivity, malignant tumor and arteriosclerosis which contain, as the active ingredient, a substance binding to human VEGF receptor Flt-1 or a substance inhibiting signal transduction mediated by human VEGF receptor Flt-1. The human VEGF receptor Flt-1-binding substance is a monoclonal or polyclonal antibody, chimeric antibody, or antibody fragment.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:219697 CAPLUS

DOCUMENT NUMBER: 133:118695

TITLE: Construction and expression of a chimeric murine-human

antibody against VEGF165

AUTHOR(S): Guo, Wenzhong; Yang, Zhihua; Ran, Yuliang; Wang,

Guiqi; Liu, Jun; Sun, Lixui; Dong, Zhiwei

CORPORATE SOURCE: Cancer Inst., Chinese Acad. Med. Sci., Beijing,

100021, Peop. Rep. China

SOURCE: Zhonghua Weishengwuxue He Mianyixue Zazhi (2000),

20(1), 45-48

CODEN: ZWMZDP; ISSN: 0254-5101

Weishenbu Beijing Shengwu Zhipin Yanjiuso PUBLISHER:

DOCUMENT TYPE: Journal Chinese LANGUAGE:

ABSTRACT:

Objective To construct a chimeric murine-human antibody against VEGF165. Methods The murine genes encoding the variable regions of light and heavy chains of monoclonal antibody VmD11 against VEGF165 were cloned into expressional vectors of pAcyc-neo-C.kappa. and psv2-gpt-C.gamma.1 sep. resulted vectors were transferred into murine-myeloma-cells to express ***chimeric*** antibodies. The chimeric antibody in the cultural supernatant of transfected cells was detected by indirect ELISA and its humanized character and specificity against VEGF165 was confirmed by

Western blot, RT-PCR and competitive ELISA. Results The chimeric ***antibody*** against human VEGF165 was detected in the cultural supernatant of transfected myeloma cells with a yield of 10.mu.q/L. Specificity of the ***chimeric*** antibody was proved by Western blot and competitive ELISA, the expression of chimeric gene was confirmed by RT-PRC. Conclusion Chimeric mouse-human antibody against VEGF165 was successfully expressed in myeloma cells of mouse.

ANSWER 13 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:7095 CAPLUS

DOCUMENT NUMBER: 132:320697

TITLE: Construction of anti-human VEGF165 chimeric

antibodies and expression in eukaryotic cells

AUTHOR(S): Ran, Yuliang; Yang, Zhihua; Wang, Guiqi; Liu, Jun;

Sun, Lixin; Dong, Zhiwei

Cancer Institute (Hospital), Chinese Academy of CORPORATE SOURCE:

Medical Sciences, Peking Union Medical College, Beijing, 100021, Peop. Rep. China

SOURCE: Zhonghua Zhongliu Zazhi (1999), 21(6), 412-415

CODEN: CCLCDY; ISSN: 0253-3766

PUBLISHER: Zhongguo Yixue Kexueyuan Zhongliu Yanjiuso, Zhongliu

Yiyuan

DOCUMENT TYPE: Journal LANGUAGE: Chinese

ABSTRACT:

SOURCE:

The chimeric anti-vascular endothelial growth factor 165 antibody gene was expressed in eukaryotic cells. The variable region genes of light and heavy chains from mouse anti-human VEGF165 monoclonal antibody VmD11 were cloned into eukaryotic expression vectors and transfected into dihydrofolated reductase-deficient Chinese hamster ovary (CHO-dhfr-) cells to express ***chimeric*** antibody. The antibody expressed was examd. for the presence of human const. regions and specificity against human VEGF165. ***chimeric*** antibody with human const. regions and specificity against human VEGF was detected in the culture supernatant of transfected CHO cells by ELISA and Western blot. The chimeric ***antibody*** gene was also detected at mRNA level by RT-PCR. The mouse anti-human VEGF165 monoclonal antibody is successfully humanized and expressed in eukaryotic cells.

ANSWER 14 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:826808 CAPLUS

DOCUMENT NUMBER: 123:225950

TITLE: Monoclonal antibodies specific to VEGF

receptors and uses thereof

INVENTOR(S): Rockwell, Patricia; Goldstein, Neil I.

PATENT ASSIGNEE(S): Imclone Systems Incorp., USA

PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT N	10.		KIN	1D :	DATE			A	PPLI	CATIO	ои ис	ο.	DATE				
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WO	95218	868		A.	L	1995	0817		W	19	95-U	S1678	3	19950	0210			
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US	58403	01		Α		1998	1124		U	5 19	94-32	26552	2	1994	1020			
AU	95191	47		A1	L	1995	0829		Αī	J 19	95-1	9147		1995	0210			
EP	74174	8 :		A1	L	1996	1113		E	P 19	95-9	11659	9	19950	0210			
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE,	IT,	LI,	LU,	MC,	NL,	PT,	SE
PRIORITY	APPI	N. I	NFO	. :				τ	JS 19	994 -	1960	41	Α	19940	0210			
								τ	JS 19	994-	3265	52	Α	1994	1020			
								7	WO 19	995-	US16'	78	W	19950	210			

Monoclonal antibodies that specifically bind to an extracellular domain mammalian or human vascular endothelial growth factor (VEGF) receptor and neutralize activation of the receptor in endothelial or tumor cells are provided. The monoclonal antibodies are used in combination with a chemotherapeutic agent, e.g. doxorubicin, cisplatin, or taxol, for inhibition of tumor growth or angiogenesis. Chimeric antibodies comprising murine variable region and human const. region, polypeptides contg. the variable region of the monoclonal antibody, and nuclei acid sequences encoding the polypeptide are all claimed.









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- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.

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#15 Search VEGF flt-1 and chimeric	14:25:11	<u>22</u>
#14 Search VEGF flt-1	14:19:35	<u>863</u>
#10 Search Rockwell P and VEGF	14:15:21	<u>9</u>
#7 Search Wang M and MSP	13:41:04	24
#6 Search Wang M	13:40:55	3085
#5 Search Wang M-H	13:39:57	<u>34</u>
#3 Search Ssalvetti A 1998 and AAV	10:32:27	108
#1 Search Zhou X 1998 and AAV	10:31:04	1

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- Search numbers may not be continuous; all searches are represented.

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	#14 Search scFVs and VEGF	12:12:10	<u>3</u>
	#2 Search VEGF neutralizing antibody and cancer treatment	11:57:15	<u>56</u>
	#6 Search Rosenberg SA[au] Limits: Clinical Trial	11:27:00	114
	#4 Search VEGF neutralizing antibody and cancer treatment Field: All Fields, Limits: Clinical Trial	11:11:24	3
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recognize the epitopes closely located on the configuration of VEGF/VPF121 molecule and the epitopes recognized by MV101 and MV303 may play an important role in the VEGF/VPF-receptor signal transduction. These MAbs significantly suppressed the growth of a human hepatoma, PLC/PRF/5, in vivo.

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8		Neutralizing inhibits furt metastases i	her grow	th of estal	olished pros			ody

PubMed Services Melnyk O, Zimmerman M, Kim KJ, Shuman M.

Cancer Research Institute, University of California at San Francisco, USA.

PURPOSE: The formation of new blood vessels from the pre-existing vasculature is necessary for support of primary tumor growth and appears coincident with the development of metastasis. In previous studies, inhibition of vascular endothelial growth factor (VEGF), a potent angiogenic factor and mediator of vascular permeability, inhibited tumor neovascularization with consequent inhibition of both primary tumor growth and micrometastases when administered at the time of tumor inoculation. In the present study, we examined the effect of inhibiting VEGF on primary tumor growth and metastases in an in vivo model of established metastatic prostate cancer. MATERIALS AND METHODS: The human prostate cancer cell line DU-145 was found to secrete VEGF. DU-145.luciferase, a subclone stably transfected with an expression vector encoding the luciferase gene, injected subcutaneously, consistently formed tumors in C.B.-17 scid/scid mice. After 6 weeks, assay of whole lung lysates showed significant luciferase activity, consistent with the presence of micrometastasis. RESULTS: Twice weekly treatment of the animals with a monoclonal anti-VEGF neutralizing antibody, A4.6.1, not only suppressed primary tumor growth, but inhibited metastatic dissemination to the lung. When treatment was delayed until the primary tumors were well-established, further growth was still inhibited, as was the progression of metastatic disease. CONCLUSION: Inhibition of tumor-secreted VEGF by a neutralizing antibody is sufficient to significantly impair prostate tumor growth and its subsequent metastasis in an in vivo model of established advanced prostate cancer. These data suggest a critical role for VEGF in initiation and maintenance of tumor angiogenesis in prostate cancer. Inhibition of VEGF in patients with VEGF-secreting prostate cancers may prove an effective approach for inhibiting disease progression even after micro-metastatic dissemination has occurred.

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Retroviral display of antibody fragments; interdomain spacing strongly influences vector infectivity.

Ager S, Nilson BH, Morling FJ, Peng KW, Cosset FL, Russell SJ.

PubMed Services Cambridge Centre for Protein Engineering, England.

Five different single-chain antibody fragments (scFv) against human cell-surface antigens were displayed on murine ecotropic retroviral vectors by fusing them to the Moloney SU envelope glycoprotein. The spacing between the scFv and the SU glycoprotein was varied by fusing the scFv to residue +7 or to residue +1 of Moloney SU and by inserting linker sequences of different lengths between the domains. All of the chimeric envelopes were efficiently incorporated into vector particles and could bind to human cells through their displayed antibody fragments, but did not infect them. The spacing between the scFvs and the SU glycoproteins had no significant effect on the efficiency of envelope expression or viral incorporation and did not affect the binding properties of the chimeric envelopes, nor did it influence the efficiency of targeted gene delivery to human cells by scFv-displaying vectors. However, on murine fibroblasts the infectivity of vectors incorporating the chimeric envelopes was strongly influenced by the length of the interdomain spacer. The titers were very low when the single-chain antibodies were fused through a tripeptide linker to SU residue +7 and were greatly enhanced (up to 10(5)-fold) when they were fused to SU residue +1 through a heptapeptide linker. These results point to the importance of steric interactions between the domains of chimeric envelope glycoproteins and may have implications for retroviral vector design for human gene therapy.

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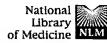
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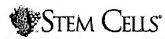




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Anti-VEGFR-2 scFvs for Cell Isolation. Single-Chain Antibodies Recognizing the Human Vascular Endothelial Growth Factor Receptor-2 (VEGFR-2/flk-1) on the Surface of Primary Endothelial Cells and Preselected CD34⁺ Cells from Cord Blood

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Key Words: Immune V-gene phage display library Single-chain antibody Human VEGF receptor 2 FACS analysis Hematopoitic stem cell

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ABSTRACT

Five specific single-chain antibodies recognizing the human vascular endothelial growth factor receptor-2 (VEGFR-2/KDR) were selected from a V-gene phage display library constructed from mice immunized with the extracellular domain of VEGFR-2 (Ig-like domain 1-7). All five scFv antibodies (A2, A7, B11, G3, and H1) bound to the purified native antigen in enzyme-linked immunosorbent assay and Dot Blot, and showed no crossreactivity to the human VEGF-receptor 1 (VEGFR-1). The selected

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antibodies recognize a conformation-dependent epitope of the native receptor and do not recognize